INTERNATIONAL SEARCH REPORT

International Application No

T/IB2004/002304 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F15B20/00 F15E F15B11/024 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 F15B F16H Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category ° Relevant to claim No. X US 2002/121087 A1 (CASSE CHRISTOPHE LIONEL 1-4 RENE ET AL) 5 September 2002 (2002-09-05) 15-18 paragraphs '0032! - '0050!; figures 1-4 Α 5,19-21 A GB 2 318 426 A (ULTRONICS LIMITED; ULTRA 1,15 HYDRAULICS LTD (GB)) 22 April 1998 (1998-04-22) abstract; figure 1 Α GB 2 053 419 A (SINGER CO UK LTD) 1,15 4 February 1981 (1981-02-04) abstract; figure 1 A US 6 193 627 B1 (BART JOERG) 1,6-15,27 February 2001 (2001-02-27) 22,23 abstract; figures 2-4 Further documents are listed in the continuation of box C. X Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the International filing date or priority date and not in conflict with the application but died to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance invention *E* earlier document but published on or after the international 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is clied to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 19 October 2004 27/10/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Daieff, B Fax: (+31-70) 340-3016

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